

Press Release

BEML Ltd and Bharat Electronics Limited (BEL) Forge Partnership to Develop Indigenous Train Control Management System (i-TCMS)

Bangalore | April 04, 2024 – BEML Ltd and Bharat Electronics Limited (BEL) have embarked on a transformative journey towards revolutionizing rail communication technology in India by signing a Memorandum of Understanding (MOU) to jointly develop an indigenous Train Control Management System (i-TCMS). This pioneering collaboration between two of India's major Defence PSUs, BEML and BEL, aims to drive innovation and foster self-reliance in the critical domain of train control management systems.

The MOU was exchanged in a ceremony held at BEML headquarters, attended by esteemed dignitaries, including Shri Shantanu Roy, Chairman and Managing Director of BEML, and Shri Manoj Jain, Director (R&D) representing BEL, alongside other senior officials from both organizations. This momentous occasion signifies a significant step forward in aligning with the 'Make in India' initiative championed by the Government of India. The primary objective of this partnership is to identify potential areas of cooperation between BEML and BEL, with a focus on exploring the joint development of high-value products and solutions tailored to the requirements of Indian Railways and Metro systems.

Shri Shantanu Roy, CMD of BEML, said, “We are happy to sign this initiative with India’s leading professional electronics player, BEL Ltd that will be aimed towards reducing India's import dependency for train communication technology and enhancing the nation's indigenization capacity. Our joint endeavour aligns perfectly with India's “Aatmanirbhar Bharat” ambition, aiming to achieve the world-class products for rail industry”.

Currently, Train Control Management Systems (TCMS) are predominantly supplied by propulsion suppliers, leading to dependency on imported technology. In line with the "Make in India" initiative, the collaboration aims to develop TCMS indigenously to meet the future needs of rail projects in the country. Often referred to as the "brain of the train," TCMS is aimed to play a pivotal role in coordinating control and monitoring across various systems.

It encompasses a distributed control system comprising computer devices, software, human-machine interfaces, digital and analogue input/output capabilities, and secure data networks. TCMS facilitates seamless data communication interfaces with other train-borne and wayside systems, ensuring efficient and reliable rail operations. Through this strategic alliance, BEML and BEL are poised to revolutionize the landscape of rail transportation in India, ushering in a new era of technological advancement, operational efficiency, and national self-reliance.

About BEML- BEML Limited is a leading multi-technology 'Schedule A' company under the Ministry of Defence, plays a pivotal role in serving India's core sectors like Defence, Rail, Power, Mining and Construction by offering world class products. BEML operates in three verticals viz. Defence & Aerospace, Mining & Construction and Rail & Metro and has state-of-the-art manufacturing facilities located at Bangalore, Kolar Gold Fields (KGF), Mysore, Palakkad, with having very strong R&D infrastructure and nationwide network of sales and services. BEML Limited, a committed player in the field of manufacturing earthmoving, transportation, and construction equipment, celebrates a rich legacy spanning six decades of relentless pursuit of excellence and innovation.

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MoU signing Pics





